

Ali Zia

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SKILLS

Languages: Python, Java, JavaScript, C/C++, R, Matlab, HTML/CSS

Frameworks/Libraries: React, Node.js, Express, Junit, Pandas, NumPy, Scikit-learn, FastAPI

Tools: Git, Bash, Linux, MySQL, Firebase, PlantUML, VS code, IntelliJ, PyCharm, NetBeans, Jupyter Notebook, Excel

EDUCATION

McMaster University | Bachelor of Engineering – Software Engineering Co-Op

September 2021 – May 2025

- **3.8/4.0 Cumulative GPA**
- **Awards:** Engineering Award of Excellence, Dean's Honour List
- **Relevant Courses:** Object-Oriented Programming, Software Development, Data Structures & Algorithms

PROJECTS

Premier League (Soccer) Win Predictor

- Processed and feature engineered hundreds of Premier League games data with **Pandas**
- Developed a classification model with **SciKit-Learn** to predict the winner of any future games
- Used training sets to train the model, achieving **80%** predictive accuracy with optimized hyper-parameter tuning
- Deployed the model using **FastAPI** for a user-friendly experience

Recycling System

- Researched and designed the logic behind automated recycling systems to remove human error
- Programmed the logic with **Python** and used **Quanser** to run virtual simulations to ensure accurate functionality
- Executed the project by controlling a **QBot** with a **Raspberry Pi**, achieving **99%** accuracy in sorting containers

Image Classifier

- Used **Python** and **TensorFlow** to develop a deep learning image classifier to identify vehicles with **98%** accuracy
- Reduced false positives by **15%** through advanced data augmentation techniques, improving model performance
- Accelerated training time by **30%** using optimized hyperparameters, ensuring effective scalability

WORK EXPERIENCE

Event Coordinator

September 2017 – January 2023

Sheridan Community Services

Toronto, ON

- Orchestrated planning and execution of multiple large-scale events, achieving a **95%** attendee satisfaction rate
- Successfully managed event logistics accommodating **100** attendees and ensuring a **98%** on-time start rate
- Increased event attendance by **25%** through effective promotion and marketing strategies

Repair Technician

May 2022 – August 2022

Rama Centre

Mississauga, ON

- Managed **10+** repairs daily and achieved a **100%** satisfaction rate in repair efficiency and on-time completion
- Effectively identified and resolved a wide range of technical issues, reducing rework time by **35%**
- Proactively identified and resolved potential issues in repair execution, boosting repair success rates by **85%**

EXTRA-CURRICULARS

RBC Future Launch Contestant - Innovation Challenge Winner

May 2023

- Worked in a team of **4** to develop and deliver a proposal for an RBC workshop, winning amongst 12 teams

Software Design Team Lead - DeltaHack 9

January 2023

- Led a team of **3** to develop a full-stack application with **React** and **Firebase**, allowing users to chat online